

Technical Questions and Answers for Maritime Training Academy at the “Almirante Padilla” Navy Academy in Cartagena, Colombia.
SCO150-13-R-N010

TYPICAL HEADWALL

Q1: Please clarify location of headwall - energy disperser (HSE2)

Answer: There are 2 headwalls. The first is for sewer system and it is located after filter bed to 5 meter from last inspection box, the other is for rainwater system and it is located to 30 meter from the last inspection box.

ARCHITECTURAL DESIGNS

Q2: Please provide architectural detail for pergola between buildings.

Answer: There is pergola between axes 4-5 of the simulator buildings. See detail in drawing ESE031

Q3: Please provide stair and hand railing details

Answer: See detail in drawing DE09 included in amendment 003

Q4: Provide bath details

Answer: See drawing AE11

Q5: Please provide east elevation for simulator building, it is not clear if have the aluminum curtain wall.

Answer: See drawing AE07, F-4 left side facade

ACRYLIC OR POLYCARBONATE ROOF

Q6: Please clarify location of Acrylic or polycarbonate roof.

Answer: This project does not have acrylic or polycarbonate roof. Please do not quote this item.

FLOOR FINISH

Q7: Please clarify floor finish schedule, as per drawings all building is specify with Vinyl, wet areas with 20x20 ceramic tile, please clarify material on room 121, 122, 123, it looks like concrete finish floor.

Answer: The floor finish for rooms 121, 122, 123 is in 4000 psi smooth concrete (Flattened), contraction joints each 2.5 m. maximum both way and painted with Sikafloor 2430 Co or equivalent according to manufacturer instruction.

The finish floor and walls for the bathrooms are showed in the drawing AE11 and described in the technical specifications chart in the drawing AE01.

MISSING CEILINGS

Q8: On finish schedule shows a super board ceiling on room 121, 122, 123, but they are not shown on section C-3. please clarify.

Answer: The rooms 121, 122 and 123 do not have ceiling. See drawing AE09, section C-3.

NEMA LS-1

Q9: On LV Distribution panel boards specify "The bidder shall annex in his proposal the NEMA LS-1 format", as per our search NEMA Task Force voted to rescind LS-1 on August 19th 2009, please confirm this requirement.

Answer: The LS-1 is a technical sheet required to list the parameter values of the proposed SPD/TVSS, which are going to be used during the project execution, to avoid any misunderstanding the contractor shall provide the values of his/her proposed SPD according to standard UL1449, available at <http://www.nemasurge.org/ul-1449-transient-voltage-surge-suppressors/>.

STRUCTURAL QUESTIONS

Q10: Please explain the procedures to build the 1st floor foundation/slab due to the following reason; The designs show reinforced concrete Foundation beams, reinforced concrete Subfloor joists and Concrete subfloor conforming a lightened concrete slab, but the plenum space under this slab is too narrow (20cm) to retire false work or forms necessary to build this slab, unless we are authorized to keep forms on place permanently.

Answer: The contractor shall consider keeping the false works or forms on place permanently.

Q11: We advise to change the lowered enclosing wall due to technical difficulties to be built, if not, please clarify location.

Answer: The lowered enclosing wall shall be built as indicated in the drawings. See drawing ESE03 including the 3 notes beside detail.

Q12: Shall we quote the 2nd floor as a lightened concrete slab (3.02.02E) or individual parts;

Answer: The concrete slab for the 2nd floor is lightweight as it is shown in the drawings. The contractor shall quote the concrete activities as well as is requested in the official breakdown chart.

Q13: Concrete Beams, concrete Joists and slab (3.01.03E & 3.01.04E)? Please provide structural sections.

Answer: The structural sections are shown in the drawings ESE14 to ESE 20.

Q14: Provide details for 5.01.01 Cover walls in concrete, 5.01.02 Frame 3500 psi reinforced concrete (finish in sight).

Answer: The detail for 5.01.02E is shown in drawing ESE22, sill reinforcement detail.

The detail for 5.01.02 is really the beam L junction between the two blocks; this detail is shown in the drawing ESE21.

DICE REINFORCING STEEL

Q15: The reinforcing steel is located in one way, is it necessary to conform a mesh with reinforcing in two ways? please provide details.

Answer: The reinforcing steel shall be in two ways.

TERRACES AND SIDEWALKS STRUCTURAL DESIGN

Q16: Please terraces and sidewalks structural design (base and sub base) Provide detail for elevation change between terraces and sidewalks (Concrete steps?)

Answer: The filling material for the terraces and sidewalks is indicated in the specifications, the paragraph 2.01.04. Compacted filling in granular material.

The elevations for terraces and sidewalks are indicated in drawing AE01 and the high for steps is 18 cm.

FOUNDATIONS

Q17: Dice type 1 and 2 are marked as dice #2

Answer: We checked the drawings ESE01, ESE04 and ESE05 and did not find any mistake.

PARKING AREA.

Q18: Is the parking area including on the contract?

Answer: No, the parking area is not included in the scope of project.

Q19: Are the perimetral sidewalks included on the scope of work?

Answer: The perimeter sidewalk is included in the scope of work.

Q20: Is the circulation to Kiosk included on the scope of work?

Answer: The sidewalk to Kiosk is included in the scope of work.

VERTICAL CHASE OPENINGS

Q21: Please revised vertical chase opening size due conflict with 2nd floor structural concrete framing.

Answer: This question is not clear.

WINDOW 14

Q22: Window 14 shall be divided in sections, it is too long to support the horizontal distance of the members.

Answer: The window 14 shall be divided in 4 sections. See detail in drawing DE06.

Q23: Is window 14 a fix glass window with an architectural louver? The rooms have HVAC units.

Answer: It is a window louver without glass.

RAILING

Q24: Please provide details for stair railings and hand railings

Answer: See detail in drawing DE09 included in amendment 003.

SECTION K

Q25: Is it possible to add the Report from SAM Representations, certifications and others instead of section K?

Answer: The representations and certifications from the System for Award Management (SAM) is acceptable, however, it is the offeror's responsibility to make sure that all items in Section K

of the solicitation are addressed in their submission, including the Defense Base Act (DBA) provision and designation of the offeror's Authorized Contract Administrator.

Q26: Soils Study were performed until 7m but project requires piling depth of 11m. In case of find different material after that 7m, clause of different site conditions will apply?

Answer: If the soil found after 7 meters depth has characteristics very different to indicated in Soils Study, the case will be studied in order to verify if the clause of different site conditions apply.

Q27: Which finishing will have sidewalks?

Answer: The finish for the sidewalks are showed in the drawing AE01 and described in the technical specifications chart in the same drawing. See specification 19.

Q28: Drawing AE02 shows Terraces between School and Simulators areas and a Weapons Square; these areas (terrace and weapons square) must be included in the bid? If so, which structure and finishing will have?

Answer: Please, see answer to Q16, Q19, and Q20.

Q29: Drawing AE02 establishes Ceramic Veneer 20 x 20 for walls; however, detailed bidding chart establishes at *14.01.01E Ceramic tile for bathrooms bright white ceramic 25 x 40 cm ref. Mont Blanc or equivalent*. Could you please clarify which one must be used?

Answer: The finish floor and walls for the bathrooms are showed in the drawing AE11 and described in the technical specifications chart in the drawing AE01.

Q30: Drawings AE01 to AE04 doesn't clarify finishing for floors (convention at left side of drawing is wrong). However, detailed bidding chart establishes at *10.02.01E Supply and installation of beige sealed porcelain tile floor of 0.60 x 0.60 m, Corona type or equivalent* and *10.02.02E Supply and installation of black floor type Pizarra of 0.45 m x 0.45 m for bathrooms*. Could you please clarify if these materials must be used? If so, porcelain tile will be installed in all areas different of bathrooms?

Answer: Yes, these materials shall be used and porcelain shall be installed in the areas indicated in drawings AE01, AE02, AE03 and AE04.

Q31: Which doors will have Washed gravel doorknob? Drawings are not clear about this requirement.

Answer: See drawing AE11, this finish is indicated like 10.02.03

Q32: Which area will have polycarbonate tiles T=6mm colored glass? Drawings are not clear about this requirement.

Answer: Please, see answer to Q6

Q33: Please clarify where blinds must be installed? (*items 12.04.01E and 12.04.02E of detailed bidding charts*)

Answer: These blinds will be installed in facade for rooms 121, 122 and 123 according to it indicated in drawings. See drawings AE06, façade F1 and AE07, facades F3 and F4.

Q34: What is the scope of furniture for control room? What kind of furniture must be supplied?

Answer: See detail in drawing DE10 included in amendment 003

Q35: Drawing ESE01 at nodes A9, B9, A1 and B1 text identifies as type 2 pedestals; but drawing shows these as type 1. Could you please clarify?

Answer: The dice located in the nodes A9, B9, A1 and B1 are type 1.

Q36: Drawing HSE20 establishes that hydropneumatic equipment must have two 2HP pumps. However, item 6.14.01E of bidding charts establishes pumps of 6HP. Could you please clarify?

Answer: The pumps to supply and install are two 2HP pumps and two 0.5HP. See chart in the drawing HSE20.

Q37: Location of Condenser Units? Drawing PBA-ELE10 emphasizes that just one condenser (Aula 03) will be at first floor but COMMENTS in the same drawing indicates that condensers will be at the first floor. Could you please clarify this? All condensers will be located at first floor?

Answer: The condenser units are placed on first floor, distribution is done according to proposed plans. See notes in symbols chart in drawing ELE09 and ELE10.

Q38: Capacity of AC units? There is a difference between capacities that appears in drawings against capacity in AIR CONDITIONING calculations. As example, at second floor, calculations establishes that for CLASSROOMS We must use 36000 BTU units, but in drawings appears 24000 BTU units. Could you please clarify us which information must be used for proposal?

Answer: Electrical Calculations established 36KBTU for class rooms and plans must show the same capacity, please upgrade the value accordingly.

Q39: Multisplit System required by specifications is a system that is no longer produced by AC Suppliers. There are two options to replace it, could you please confirm us which alternative could be used?:

- Traditional mini-split system: one condenser by one mini-split unit.
- VRF System (Variable refrigerant system) which is a more expensive and optimized system, that can use one condenser for many mini-split units.

Answer: Traditional Minisplit solution is not viable due to the number of condenser units required to be placed in exterior zones. Multisplit solutions are available in current market; please visit web sites as LG, Samsung, York among other companies. The import of devices is an approved option based on technical specifications; however those imported assets shall have Colombian representation for further support, spare parts and supplies availability. Important: Any other solution proposed by the contractor shall be presented as an optional solution, since it is considered as a particular response.

Q40: According to Soils Study, at 4.1 ADECUACIÓN DEL TERRENO establishes that is recommended a total replace or improvement in a depth of 0.60m; however, at 4.9. ASPECTOS PRINCIPALES DEL ESTUDIO establishes that groundwater level (*nivel freático*) was found between 0.30m and 0.50m. Taking into account this information, it will be necessary perform

excavation and backfill in a flooded area. Could you please confirm us this situation, or if the replacement or improvement could be performed to a lower depth?

Answer: The contractor shall perform what is indicated in Soils Study. The Soils Study is part of the contract specifications.

Q41: Laboratory tests. Specifications established that one test of modified proctor must be performed each 200 square meters (m2). This requirement refers to each layer of material? If so, we consider it excessive because if we have three or four layers of backfill it will be necessary to perform approximately 18 or 20 modified proctors tests. If refers just to finished area, approximately 6 modified proctors tests have to be performed (for us, this is excessive too). Could you please clarify the final requirement of this test?

Answer: The contractor shall perform what is indicated in Soils Study. The Soils Study is part of the contract specifications.

Q42: Electric servitude that crosses the lot where is implemented the project, its clearing it will do by the tenderer, the contracting or to withdraw the company electricaribe, please clarify.

Answer: The project shall be expected to be a Turn-key solution, therefore the contractor shall be responsible to perform the works need to enable electrical services for the proposed complex. In technical specifications the contractor shall “Assist and coordinate all the technical affaires, logistics and internal processes, which are required to activate the electrical service for the proposed complex”

Q43: Request taking into account the delay for the delivery of the proposals at least fifteen days from the date estimated april 30.

Answer: Please, see amendment 002.

Q44: if possible send the budget with items and quantities in excel format.

Answer: Unfortunately we are not able to share an excel version at this time.

Q45: it is possible to open an entry both staff and suppliers directly to the work without having to go through the guard or entry of the unit military obviously with the security and control that deserves this access.

Answer: The Naval School will adapt exclusive access for contractors in the main entrance with electronic biometric devices (electronic fingerprint identification). All contractors without exception should pass by this access.

Q46: provisional public services are processed before the companies public case or before the naval unit, please clarify.

Answer: As was said in the pre-proposal conference, the provisional utilities shall be processed by the contractor with the utilities company.

Q47: The excavation blueprints do not show the limits in depth and plant.

Answer: The contractor shall perform what is indicated in Soils Study. The Soils Study is part of the contract specifications.

Q48: The filling blueprints do not show limits on width and plant

Answer: See section C-1 and C-2 in drawing AE08 and section C-3 and C-4 in drawing AE09. Also the contractor shall perform what is indicated in Soils Study (The Soils Study is part of the contract specifications).

Q49: We require a report on the connection for water, electricity and sewage (provisional and finals)

Answer: As was said in the pre-proposal conference, the provisional utilities shall be processed by the contractor with the utilities company. Therefore the connection and the supply of utilities during the construction shall be paid by the contractor.

About the final utilities connections, the contractor shall perform what is indicated in the drawings and specifications.

The main water connection shall be done to the water line that is showed in drawing TE-01 and the length is 50 meters.

Q50: Would you please define the site for camp construction?

Answer: See specifications, paragraph 1.01.01. Campsite and temporary facilities for workers and administrative staff.

Q51: Is there any blueprint for definitive water and electricity connections?

Answer: Please see answer to Q49.

Q52: Are there points of connection for rain water and sewage network?

Answer: Please see answer to Q1

Q53: Clarify if pedestrian access and parking spaces have to be included in the project

Answer: Please see answer to Q18, Q19 and Q20

Q54: We need detail for the exterior floor finishing

Answer: See detail in drawing DE10 included in amendment 003.

Q55: We require de floor finishing on the workshop

Answer: Please see answer to Q7

Q56: We need to know the facade finishing between axis b and a

Answer: See detail in drawings DE08 and DE09 included in amendment 003.

Q57: Clarify what is PR03 on the AE07 blueprint

Answer: It's a metallic façade fixed to the wall. (In Spanish Cortasol), See detail in drawings DE08 and DE09 included in amendment 003.

Q58: Clarify the roofing included on the budget breakdown but not on the blueprints

Answer: Please see answer to Q6

Q59: Clarify location of the A80 curves and of the 15 x 5 curves

Answer: The location of the A80 curbs and 15x15 curbs are showed in the drawing AE01 and described in the technical specifications chart like 19.01.01E and 19.01.02E.

Q60: Do you the location of disposal material.

Answer: See specifications, paragraph titled Site Cleaning or Work Place Cleaning.

Q61: Finally we would like to know if it is possible to present instead of the performance bond, insurance policy, this have been accepted on contracts executed years ago?

Answer: No, contract requires a bond or a letter of credit.

Q62: Please provide suppliers of Concrete 280 Kg/cm² (Ready Mix)

Answer: The Government will not suggest or provide suppliers names, this information is publically discoverable by offerors.

Q63: What Additives are employed to counter the attack of sulphates and carbonates to Reinforced Concrete.

Answer: The contractor should contact suppliers of concrete in Cartagena.

Q64: Is Cement Type V, available in Cartagena to counteract the sulphates and carbonates (cost and if there Cement Production of such site or at the nearest place, if difficult cement obtaining other technology employed)

Answer: Please see answer to Q63

Q65: Please provide the Soil and Stratigraphy Studies to review the Deep Foundations (Piles Foundation)

Answer: Please, see amendment 001.

Q66: What is the depth to which the piles are to be installed for foundations.

Answer: See Soils study and drawing ESE05.

Q67: Will the project require drawings with with respect to the levels of the Sea

Answer: The question is not clear but the drawings TE01 and TE02 show the different level of the existing terrain.

Q68: How many floors is the scope of the project, and define the use of the environment for each floor.

Answer: See drawings AE01 to AE009 and the synopsis published in webpage.

Q69: Missing planes Structures Project Modules.

Answer: The question is not clear about which modules are you talking about. The structural drawings go from ESE01 to ESE33.

Q70: There is a Structural Analysis Report (Foundations, Structural Analysis and Design of Reinforced Concrete)

Answer: Yes, there is structural analysis report.

Q71: In the planes of Architecture AE01 - Area Maritime Interdiction simulator, show lights 10 45 m, what type of poles are required? Reinforced concrete beams or steel

Answer: See drawing ESE13.

Q72: Within the project drawings shows the machine room, what will be in these rooms (Genset, Gas or other facilities)?

Answer: See drawings HS09, HS16 and HS20

Q73: Within Project plans a Substation is shown will this be part of the Project or facilities only?

Answer: The Substation is part of scope of the project.

Q74: Within the project plans presented different sidewalks, how many linear feet will be part of the project and the location of these?

Answer: Please, see answer to Q19 and Q20

Q75: There is a Parking area on the Drawings, will this be part of the scope of the project.

Answer: Please, see answer to Q18.

Q76: There is a green area on the Drawings, shall be part of the scope of the project.

Answer: The green area is not part of the scope of the project but shall be protected against damages. Please check specifications, paragraph titled FINAL CLEANING AND RESTURATION.

Q77: The drawings show an arial power line, this will not affect in any way to the execution of the Project, and if so, will it be necessary to remove these posts, or change the location of any module - see Costs and who will take care of them). If the parking lot is within the scope, these pass through the network medium voltage overhead power thus are affected

Answer: Power line crossing the parking area is not part of the scope of the project. Please, see answer to Q18

Q78: The pricing proposal shows an OFFICIAL BREAK DOWN CHART, are we required to fill and provide this breakdown Verbatim or can we present out own BOM and pricing along with Division breakdown?

Answer: It is preferred that the Official Breakdown Chart is used. However, it is acceptable to use your company's own BOM since each company has their own cost accounting system.

Q79: Does the company need to be a registered Colombia company if all work will be subcontracted?

Answer: Per Section H.24 Performance of Work by the Contractor, at a minimum, 20% of the work must be performed by the prime contractor. Also, I.14 Authorization and Performance addresses requirement for authorization to operate and do business as well as requirement for necessary licenses and permits. If work is divided with subcontractor in such a way where both of these requirements are met while the prime contractor is not a registered Colombian company, that is acceptable.

Q80: Will NAS make payments via check or wire transfer?

Answer: The payment will be via wire transfer.

Q81: Are there soil studies available?

Answer: Please, see amendment 001.

ARCHITECTURE

Q82: The bathrooms on the second floor have specification type P1, however, in first floor indicates P2, so, that means, the first one are with veneer and the other ones are painted?

Answer: The finishes for bathrooms (First and second floor) shall be A2, P2 and C2 according to drawing AE02 and installed according to drawing AE11.

Q83: In floor drawings, a façade wall are specified in “muro divisorio 4.01.01”, but in section drawings indicates “bloque split 4.01.03”. If is as specified in sections it will be no necessary to do plasters and paint. Please clarify for calculating real quantities.

Answer: There are two types of finish for facades; 4.01.01E Divisive wall shall has plaster and paint (interior and exterior) and 14.01.03E Split Block shall not have finish.

Q84: In the laboratory which is the finish for floor ¿ is only mortar flattened?

Answer: Please, see answer to Q7.

Q85: Please clarify if for all floors of the school the tile for install is 60x60? And what exactly is its specification.

Answer: Please, see answer to Q30.

Q86: We found that for fixed furniture there isn't details, specs, dimensions. This is important in order to determine its costs.

Answer: If you are referring to cafeteria furniture, the dimensions are indicated in drawing AE12. The superior cabinet shall have 3 door and length = 1.20 m. quality Socoda or equivalent. The furniture on the floor shall have 3 drawers and 4 doors and one internal shelf quality Socoda or equivalent.

Q87: Shall the contractor supply furniture like stove, refrigerator, etc?

Answer: No, the contractor shall supply and install only one stainless steel sink with measures 0.6x0.40 m., gage 14, embedded on the kitchen table, perfectly finished.

Q88: In the same way shall the contractor supply furniture for the school as well as desks, workstations, chairs, etc.? If yes, please provide an specification.

Answer: The contractor shall not supply any furniture.

Q89: Door P-12 was designed for divide one classroom as indicated on second floor drawing. However in the details drawing for windows and doors, the detail is different. It has a different dimension. Please clarify.

Answer: It is a mistake of code designation; the drawing shows a sliding partition that divides the classrooms 01-02 and 03-04 each one. The contractor shall supply and install two acoustic folding wood divisions for the classrooms as is indicated in drawing AE03 (See floor plan for measurements of each area). These divisions shall be floor to ceiling and be conformed by continuing cedar doors. The divisions shall work with concealed railing embedded in the ceiling

with industrial type rolling, easy to operate. This rail shall be anchored to the beam or upper slab assuring stability and grip. Is preferable not to have rails in the bottom part; in case they are necessary they shall be embedded in the slab and not be over the level of the finish floor. When the door is open to have one sole room, the doors shall be parallel to the lateral wall, avoiding that the useful space is occupied. Doors and divisions shall be true to the vertical and be stable, both closed and opened. The division shall include door bolts to floor inside boxes; easily to operate. At the extremes of the division, handles and locks shall be located assuring operation and lock. The wood to be used in the structure and as finish shall be dry and immunized. Cover shall be cedar triplex of 9mm, finished and stained. Structure shall include vertical and horizontal elements, with mineral wool or equivalent acoustic isolation. Shop-drawings with color samples and accessories shall be submitted, prior to the door production. Railing functioning shall be reviewed as well, through sample of doors in function. If the contractor would like to present alternatives with fulfill the same function to a less cost or better quality, please present it as an additional option to be subject to analysis.

This activity shall be quoted within the bidding chart, one suggestion is to insert a new line item as 13.01.07E.

Q90: There is no blind detail in laboratory block.

Answer: See detail in drawings DE08 and DE09 included in amendment 003.

Q91: Our specialist in lighting warns about the levels designed are too high (1200 lx), besides he thinks the distribution planed for those lamps is very irregular. Please clarify the specification of the lamp in order to know we are not wrong in the homologation.

Answer: The lighting required levels are summarized as follows (For more details lighting calculations are annexed in “Electrical Calculations” file that was posted with solicitation):

Acceptable levels/Niveles

(Table Table (Table 410.1/ Tabla 410.1

Low/Bajo: 300 lx

Medium/Medio: 500 lx

High/Alto: 750 lx

Special areas: 1000lx

The request does not state 1200lx. The proposed bulbs, which were used for calculation purposes, are average Phillips bulbs. The calculation is a technical reference for the lighting system, in case of using a different bulb model, the contractor shall recalculate his/her design accordingly, observing the Colombian standard RETILAP

Q92: Fire network only has smoke detectors. Don't are we going to have pipes and sprinklers? Is it going to use only extinguishers, even in the laboratories?

Answer: The contract is requesting fire alarm systems, no sprinkler system. See drawings ELE16 and ELE17, specifications (Fire alarm system) and bidding chart, chapter 8.03.

Q93: Glasses for Windows are 4 mm and frames do not comply with the seismoresistant code. We suggest using glasses of 6 mm and frames type system 744. Please confirm.

Answer: The glass shall have 6 mm. thicknesses and the frame shall be adjusted according to NSR 10 code (chapter K.4).

Q94: Window V5 in general drawing has 2.00 mts wide but in details it shows 2.80 mts wide. Please clarify.

Answer: The window V-5 has 2.80 m. height. See drawings AE06 and DE04.

Q95: For Windows V11 and V15 we found the same problem indicated at the previous point.

Answer: The window V-11 has 0.50 m. height and the window V-15 has 1.80 m. height. See drawings DE 05 and DE06.

Q96: Could you provide a detail about the hand rail of the stairs?

Answer: See detail in drawing DE09 included in amendment 003.

ELECTRIC NETWORK

Q97: Is it possible to offer F/UTP cat 6A for voice and data network?

Answer: The cable to be used shall meet “ANSI/EIA/TIA CAT 6A ANSI/EIA/TIA-568-B.2-ad10 (Augmented Category 6), Class F”

Q98: What is the range to use for the TVSS? In the description for panels the specification is: TVSS 80 kA, but in the electrical calculations in page 84 we read the TVSS shall be 120 kA. Please clarify.

Answer: Electrical calculations shall be observed as mandatory, since their results are reflected in schematics.

Q99: In drawing ELE01 we found two areas on the left side of the axis A, one is the Machine Room, this room has not specified any system, no lighting, no electrical panel located, do not specify the arrival of pipes. Is it necessary to take into account these systems to this area?

Answer: The mentioned room is provided with a panel boards as required in technical specification and electrical calculation, please refer to “Pumps rooms”. Cabling, ducting and grounding is done according to stated conditions in electrical calculation and technical specifications. For lightning, the contractor shall observe recommendation NFP-780 and NTC 4552.

Q100: At the specifications, in chapter LV RACEWAY SYSTEM SECONDARY mention that the tray dimensions should be 60cm width x 20cm high. Checking drawings ELE 01-02-03-04-05-06, these dimensions do not match, because in drawings dimensions showed are 20cm wide. Which is the real dimension to install?

Answer: LV raceway is distributed is specified in section “LV Secondary raceway system”. The backbone is 60cmX20cm and it is showed as a ladder tray along the proposed areas.

Q101: On the route of wire tray type ladder it is specified a vertical path through the “buitron”. Taking into account the dimensions of “buitron” is impossible to install the wire tray type ladder 60cm wide as indicated in the specifications document. Please clarify.

Answer: “Buitron” is the open space required to install the ladder tray system.

Q102: At the specifications, in Chapter LV RACEWAY SYSTEM SECONDARY, 12x5 wire channel is specified for data network systems and electrics, but reviewing the plans ELE 05-06-

07-08, they suggest that the wire channel is used only for data and for the electrical system is going to install embedded pipe on walls like electrical outputs? Is this assessment correct?

Answer: Please, see answer to Q100.

Q103: It is mentioned in breakdown chart the board Pumps "PUMPS"; but this board is not located on the drawings. Which is the location of this electric board?

Answer: Please, see answer to Q99

Q104: In the specifications, at LV DISTRIBUTION PANEL BOARDS, boards can be for use of plug-in type breaker or breaker DIN rail type?

Answer: The contractor is free to use the best system contact mechanism he/she consider, however the selection criterion shall observe RETIE and NTC 2050 regulation and conditions.

Q105: What is the capacity of short-circuit current that should have the protection breaker for secondary loads?

Answer: Short circuit current is rated according to acceptable values stated on RETIE product acceptance conditions (10KA for general services and lighting, 25KA for engines and force equipment). Please, see electrical calculations.

Q106: What shall be the characteristic of the breakers to use for the pump system and conditioned air. These breakers should be an industrial breaker (Molded case)?

Answer: Industrial type, 25KA

Q107: For the electric board of pumps and / or electric boards of conditioned air, installation should include motor starters, starters, protections, etc.?

Answer: Special equipment and force devices are installed according to manufacturer's conditions, therefore any protection device and system required for proper operation shall be considered.

Q108: We should consider the supplying of the pumps for the project?

Answer: Yes.

Q109: Is there any external illumination net designed for surrounding areas, flags square, etc.; because these are not described in drawings.

Answer: External illumination was not considered in this project.

HYDRAULIC AND SANITARY SYSTEM

WASTEWATER NETWORK

Q100: We didn't find calculations where justify a septic tank of 10,000 lts. Nonetheless if it shall be supplied; in which item could we include it?

Answer: This activity is described in the specifications, paragraph 6.10."Treatment System of Septic Tank", item 6.10.04 and in the bidding chart is the item 6.10.04E. The capacity of the tank shall be 10.000 liters.

Q111: There is no specification about anaerobic tank volume. Please clarify

Answer: The dimensions of anaerobic tank are showed in drawings HSE19 and HSE19, detail HSD-016.

WATER SYSTEM NET

Q112: We can't find the design of the water network in the bathrooms on the second floor. Please provide.

Answer: As the bathroom of the first floor has the same sanitary devices that the bathroom of second floor, the contractor should use the layout showed in the drawings HSE15 and HSE16 in order to do the quotation.

Q113: In the pump room scheme, it is no clear the connection between proposed ejector pump and the discharge of pressure equipment.

Answer: The pumps shows in the drawing HSE20 are not connected with the pressure equipment. These 2 pumps are installed in order to prevent the machines room flood.

Q114: Shall we include it in the quote the PRFV buried tank of 15000 liters and its civil works? If yes, please specify which chapter.

Answer: This activity is described in the specifications, paragraph 6.13. "Connection to an Existent Drinking Water Drainage System", item 6.13.07 and in the bidding chart is the item 6.25.07E. The capacity of the tank shall be 15.000 liters.

Q115: We didn't find drawings about fire network. Isn't there?

Answer: Please, see answer to Q92.

TECHNICAL SPECIFICATIONS

Q116: In paragraph 6.14.01 specifies two pumps 6 HP, however in the same paragraph then specify equipment with a minimum power pump of 2HP. Please clarify what equipment is really needed.

Answer: Please, see answer to Q36.

Q117: In the drawings HSE14 HSE12, HSE13, HSE15, shows two ejector pumps in the pump room but there are no specifications of this equipment.

Answer: Please, see answer to Q36.

URBANISM

Q118: In the site visit we were noticed about the parking zone would not be executed. So, no excavations and sub-base fillings are going to do?

Answer: Please, see answer to Q18.

Q119: The road leading to the pier, shall be done? In affirmative case, what is its finish?

Answer: Please, see answer to Q20 and Q27.

Q120: We suggest taking into account installing of grass around the affected areas. Please confirm.

Answer: Please, see answer to Q76.

STRUCTURAL

Q121: There is a wall under foundation beam that goes around the perimeter thereof. In what item must be included, because it is not detailed in the breakdown chart.

Answer: This activity shall be quoted in the chapter 3.03 “various elements in concrete” like item 3.03.02E Lowered enclosing wall.

Q122: Spec H.1. BOND REQUIREMENTS: To comply with the bonds requirements, is it possible to furnish policies issued by a Colombian insurance company (as previously used in other NAS projects) instead of the ILC (irrevocable letters of credit) stated in the contract solicitation.

Answer: No, a bond or an ILC is required.

Q123: Can you postpone question to at least Monday April 22 as Saturday and Sunday are non working days?

Answer: The deadline for questions has passed and is not extended.

Q124: We request to extend the due date for this proposal at least 15 days as there many items a and no quantities defined.

Answer: Please, see amendment 002.

Q125: The sidewalks areas are not defined, please define the coverage of this item, which and how many.

Answer: Please, see answer to Q19, Q20 and Q27.

Q126: Are parking lots included as part of this contract?

Answer: Please, see answer to Q18.

Q127: Confirm if the columns will be exposed concrete in all areas or if it will have plaster, stucco and paint, as this varies the cost.

Answer: The finish columns are described in the technical specifications chart in the drawing AE01.

Q128: Confirm if the beams will be with plaster, stucco and paint as it seams in item 7.01 or if they are exposed.

Answer: The beams that are not going to be covered with ceiling (drywall or super board) shall be exposed concrete (Concreto a la vista).

Q129: There is a difference between drawing AE01 in the sidewalks that connects with the parking lot in there the measurement is +0.94 and in drawing AE08 side 1-1 shows +0.70 which is the correct one?

Answer: The correct level is +0.70.

Q130: In main front view of the building drawing AE06 and AE07 back view between axis B and C (all length) it seems to have a beam with level +4.30 that is not shown in architectural plan or in the structural plans . What does it refer to or is it a drawing mistake?

Answer: It is a drawing mistake.

Q131: In the soil study says you need to remove at least 60 cm of the top layer to then be filled until level +0.30 (a total of 90 cm backfill)., Is this necessary taking into account it is a concrete hallow slaw? Or can we only take the top layer out and fill in until +0.30

Answer: It is correct, the soils study indicate that the existing material shall be removed or improved in a 0.60 m. thickness. The filling material shall be installed until the levels indicated in the drawings.

Q132: In which items should we include the concrete and steel of the perimeter wall?

Answer: Please, see answer to Q121.

Q133: Drawing E08 and E09 have the same information, should we discard one of the two? Or is there a missing drawing or mistake?

Answer: The drawing ESE09 shall be replaced by the drawing ESE09A that it was included in solicitation package published in webpage.

Q134: In drawing ESE01 the concrete dice or supports A1 B1 A9 and B9 are marked as type 2 but the drawing is type 1. Please clarify.

Answer: Please, see answer to Q35

Q135: In drawing ESE04 and ESE=5 reinforcement of concrete dices are only indicated in one way, indicate which is the other reinforcement.

Answer: Please, see answer to Q15

Q136: In drawing ESE04 the reinforcement of concrete dices 3 has lateral reinforcement the other types don't?

Answer: No, the reinforcement shall be as indicated in the drawings.

Q137: It is not clear what dies the title refer to in item 4.02.01 0.10 x 0.20 mts Concrete small columns. Masonry confining on concrete slabs. Are you describing concrete piles? We deduct that base on next parragraphs.

Answer: No, this activity does refer to columns (In Spanish "Columnetas") built in order to confine walls in concrete block.

Q138: It is not clear what does the item 4.01.02. Walls on Split block extensions (0.40 x 0.20 x 0.12 mts), with mortar fissure at the rate of 1:4 from the same block color and splinned joint refers to

Answer: This activity does refer to concrete block named type Split or equivalent and his installation with mortar 1:4 and the ribbed joint (In Spanish estriado)

Q139: It is not clear what does the item 5.01.01. Dwarf wall in slopes concrete at 1%. Refers to.

Answer: This activity does refer to one concrete element located on wall top. See the drawings AE07 technical specification chart and the detail named "sill reinforcement detail" in the drawing ESE22.

Q140: It is not clear what does the 5.01.02. 3500PSI reinforced concrete Open frame. Visible finish refers to.

Answer: This item does not apply for this project. Please do not quote this item.

Q141: It is not clear what does the 6.06. Polluting water evacuation system. Does it refer to sewer lines?

Answer: This activity does refer to sewer and rainwater pipes.

Q142: In item 8.02 you are referen to ceramic standard type tiles or porcelanato which is a marble type tiles.

Answer: This activity does refer to Porcelain floor beige sealing dimensions 0.60 x 0.60 m, brand Corona or equivalent.

Q143: Colombian Bonds are accepted as part of this contract as used in other US embassy projects instead of the letters of credit required in H.1.1. and if so which ones and in what coverage are they required.

Answer: A bond or a letter of credit are required to meet H.1.1. Performance bond of 20% of the contract price is required.

Q144: What is the Defense act insurance (DBA) ? Does it apply to Colombian companies?

Answer: Application of Defense Base Act insurance is based on personnel employed, not on the country of the company. Please see Section B.5, DBA insurance is required for all U.S. citizens or residents and individuals hired in the U.S. regardless of citizenship. Also, please see Section K.12 about Defense Base Act insurance.

Q145: Submit the bill of quantities indicated in section B.7 with detailed quantities, this information would be important as a guide for contractors to review to shorten time, cost and for all to have the same base.

Answer: The contractor shall supply the Price Breakdown provided in Section J (Attachment 2 Bidding Charts) fill out; and additionally the same Price Breakdown chart including quantities and unit prices for information only. This is not a Bill of Quantities type of contract, it is a fixed-price lump sum contract, contractor needs to ascertain correct quantities.

Q146: H. 14.4 Construction personnel security is requesting information not applicable for local workers as passport, etc., but mostly it indicates that those checks could take from 30 to 50 days, does this apply for every personnel list? If this is the case we need to include this extended time in the schedule. If does this not apply to this contract and will be of 10 days as used in other bases?

Answer: This information is requested for partners of company in order to do security study to the company after contract award and before Notice to Proceed. For the local workers the documents will be according to Colombian Navy requirements.

Q147: H.24 FAR 52.236-1 PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984) Explain how or for what purposes is this clause used.

Answer: This clause requires the prime contractor to complete work, on the site, equivalent to 20% of the total work under the contract.

Q148: I.2 Do local Colombian companies have to be register in DUNS and SAM for this solicitation?

Answer: Yes.

Q149: The paragraph L 5.3 indicates that Joint ventures should be legalized in notary's office; do apply this for consortiums and temporary unions or one only of the two?

Answer: Yes, this also applies for other partnership types or any other arrangement where more than one company will be offering on this contract, and all other requirements of Joint Ventures stated in the contract would also apply.

Q150: Will the government provide power for construction work at no cost to the contractor?

Answer: Please, see answer to Q49.

Q151: Provide site plan showing the location of connection to existing portable water and sewer system.

Answer: Please, see answer to Q1 and Q49. The sewer system shall be connected to filter bed as indicated in HSE18

Q152: Specification page 21, is section number "4.02.01" correct?

Answer: The section 4.02.01. correspond to 0.10 x 0.20 m. Concrete small columns. After this title appears other title named "Concrete pile" that describe the activity to build the concrete piles and that correspond in the bidding chart to section 2.02.07E "Piles D = 0.40 m., 24.5 Mpa. (d = 40 cm incl. Mobilization and dismantling equipment, concrete)".

Q153: There is a number of specification references in drawing that has no corresponding section in specification book. Please address.

Answer: The technical specification chart in the architectural drawings is indicating the finish only for some elements of the project.

Q154: There is no line item for HVAC in official breakdown chart for force.

Answer: The HVAC shall be quoted in official breakdown chart in the chapter 7.30, paragraph 7.30.01 to 7.30.06.

Q155: The price breakdown (Summary Div 1 to 16) is not consistent with "Detail Breakdown" organized by specification. For example Div 6 in summary page 1 is "Wood & Plastic" and in detail breakdown it is "Plumbing".

Answer: The price breakdown chart was done according to construction process stages in order to do the progress payments more detailed and specific during project execution. The contractor should fill out the chart breakdown of price by divisions according to each area without regard the numbering but the total cost shall be equal to indicated in detail breakdown, Section B, and in the SF1442 form.

Q156: Does Annotation Indicator on Drawings refer to the specification sections?

Answer: Please see answer to Q153

Q157: The sentence in the Annotation Indicator Table is not readable. It is bold and hazy.

Answer: All documents for this project were published in PDF and a CD with drawings in AutoCAD was delivered in site visit. The contractor can print in a large scale or do a zoom in order to see details.

Q158: There are no sufficient sections and details for the following:

- a. The conduits/pipes for electrical system embedded in the concrete /masonry wall and ceiling, etc.
- b. Are the ducts for HVAC System embedded above drywall ceiling, etc.

Answer: The symbols and piping distribution is showed in attached plans and installation description is also included in sections "LV Secondary raceway system ". The contractor shall observe recommendations NTC2050, RETIE and EIA TIA 568. Regarding HVAC piping installation the contractor shall observe "The cabling caliber and piping gauge shall depend on the product terms and condition for installation, observing RETIE and NTC2050 standards.", "The Contractor shall include in his proposal the price of the rectangular boxes, breakers, ducts, cabling and elements for the installation according to terms and conditions required by the manufacturer of the new AC proposed system". The annexed plans also depict details on downlines, and suspended piping for AC system.

Q159: Can the submittals be in Spanish?

Answer: Yes, The submittals submitted during the project execution can be submitted in Spanish.

Q160: Will you accept bond from a U.S. surety company?

Answer: Yes.

Q161: What is Value Added Tax?

Answer: See section B.4 in the contract document. In Colombia, VAT is 16% over profit.

Q162: Can our subcontractor provide a Letter of Credit on prime contractor's behalf?

Answer: Yes, as long as the letter of credit is irrevocable and it complies with format provided (Attachment 4a and/or 4b).

Q163: We would like to request you to please review the requirement to ask for irrevocable letter of credit instead of the bonds submitted by the Colombian insurance companies used for several years by the US Embassy. Those letters of credits would limit the competition and would discard small and medium companies as the banks in many cases request the company to have the same amount covered by the letter of credits in unmovable deposits for that purpose, so only big companies or very wealthy people can apply. Also take into account that as the US Embassy does not give down payments to develop the project you would need double investment to perform the project one for the deposit needed for the bank irrevocable letter of credit and the other one to perform the work, also with the cost incurred for the contractor and the US

government. We as many other responsible companies have worked with different sections of the US Embassy with local bonds for years having very good results.

Answer: No, we will not accept surety from the Colombian insurance companies. However, we will lower the required amount of retention and/or payment bond down to 10% of the contract price instead of 20%, please see amendment 003.

Q164: We understand that in order to comply with the requested payment bond the government may allow use of retention of 20% contract price as substitute, but in relation with the contract performance bond. Can we provide a performance policy issued by a Colombian Insurance Company? Or is the ILC the only valid surety for this purpose?

Answer: We will not accept a performance policy issued by a Colombian Insurance Company, it must be a bond or an ILOC.